

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A mass spectrometry ionization method comprising:
delivering electrospray droplets from an electrospray ~~nozzle~~ tip of an electrospray
ionization mass spectrometer, wherein the electrospray droplets contain solvent and analytes; and
exposing the electrospray droplets to a proton beam thereby increasing the
unbalanced charge of the electrospray droplets, wherein the proton beam energy is from 5 to 10
eV.

2. - 8. (Cancelled)

9. (Currently Amended) The method of claim 1, wherein the droplets are
injected into ~~quadrupoles~~ quadrupoles of the electrospray ionization mass spectrometer.

10. (Previously Presented) The method of claim 1, wherein the analyte
comprises organic compounds having nitrogen, oxygen, or sulfur heteroatoms.

11. (Previously Presented) The method of claim 1 wherein the proton beam
flux is from 1 mA/cm² to 17 mA/cm².

12. - 13. (Cancelled)

14. (Previously Presented) The method of claim 1, wherein the electrospray
flow rate is from 0.025 µL/min to 0.5 µL/min.

15. - 19. (Cancelled)